

**VIRTUAL SENSOR FOR THE EXHAUST EMISSIONS OF AN
ENDOTHERMIC MOTOR AND CORRESPONDING INJECTION
CONTROL SYSTEM**

Abstract of the Disclosure

The invention relates to a virtual sensor of exhaust emissions from a fuel-injection endothermic engine having a combustion chamber in each of its cylinders, a fuel injector serving each combustion chamber, and an electronic fuel-injection control unit. Advantageously, the virtual sensor includes an input interface receiving a signal from at least one pressure sensor for measuring the pressure inside at least one combustion chamber of the engine, a second input interface receiving signals from the electronic fuel-injection control unit, and a calculation block to provide estimates of the amounts of nitrogen compounds and particulates in the emissions based on the pressure and other relevant signals to the engine operation.